

ABSTRACT OF THE DISCLOSURE

A process of manufacturing a sleeve for connector of optical fibers comprises shaping a member made of stainless steel into a hollow cylinder, forming at least one portion to be heated on an outer circumferential surface of the cylinder, inserting a cylindrical rod into a bore of the cylinder, melting the portion to be heated by laser, cooling for contracting the bore of the cylinder onto the rod, and removing the cool rod from the cylinder to produce the finished sleeve having a tolerance within $1\ \mu\text{m}$. The invention has advantages of a finished sleeve having a tolerance within $1\ \mu\text{m}$, no further quality check required, and high production.